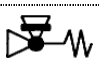
Graphic Symbols for Fittings acc. to DIN 2429 part 2

Symbol / Character		Term
	A	Steam Trap
	F	Strainer
	F	Gas filter / Air filter
	G	Inspection glass
	H	Ball valve hand operated
	H	Ball valve motor driven
	H	Ball valve pneumatic driven
	K	Swing type check valve
	K	Shutting clack hand operated
	K	Shutting clack piston operated
	K	Shutting clack pneumatic driven
	R	Spring-loaded check valve
	V	Ventilation
	V	Shut-off valve hand operated
	V	Diaphragm valve hand operated
	V	Shut-off valve with float cock
	V	Pressure reducing valve
	V	Shut-off valve diaphragm driven
	V	Diaphragm valve diaphragm driven
	V	Shut-off valve piston operated
	V	Diaphragm valve piston operated
	V	Control valve with linear actuator
	V	Control valve piston operated
	V	3/2 way valve hand operated
	V	3/2 way valve piston operated
	V	Solenoid valve 2-way
	V	Solenoid valve 3/2-way
	X	Spraying nozzle
	X	Orifice, flow reducer
	X	Sound absorber
	X	Pipe disconnector
	X	T-distribution
	Y	Safety valve

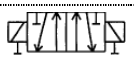
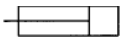
Graphic symbols for equipment DIN 28 004 part 3

Symbol / Character		Term
	B	Sterilizer / Disinfection Equipment
	B	Tank / Container
	D	Steam Generator
	F	Filter
	P	Pump
	P	Vacuum pump
	V	Ventilator
	W	Plate heat exchanger
	W	Gilled radiator heat exchanger
	W	Tubular heat exchanger
	X	Gas radiator

Graphic symbols for pipes acc. to DIN 2429 part 2

Symbol / Character		Term
	X	Tube
	X	Expansion joint
		Flexible connection
		U-tube
		Pipe
		Control line
		Crossing with connection
		Crossing without connection
		Crossing without connection
		Branch-off

Graphic symbols for pneumatic acc. to DIN ISO 1219

Symbol / Kennbuchstaben		Benennung
	R	Flow control
	V	Solenoid 5/2-way
	X	Lubrication unit
	Z	Pneumatic cylinder

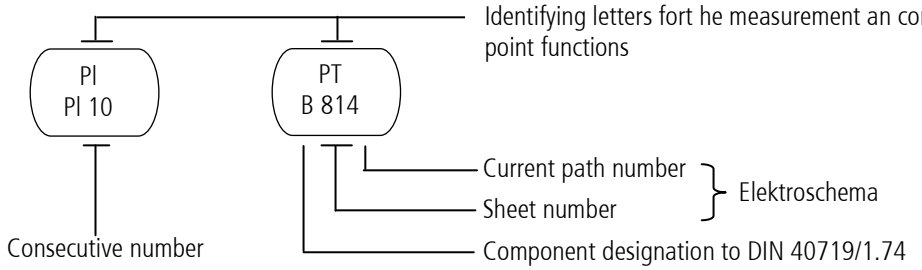
Graphical symbols an identifying letters for measurement, open-loop control and closed-loop control in process engineering to DIN 19227 1

measuring location symbol (Measurement/open-loop control/closed-loop control

Process calculator symbol (Process computer)

The function of a measurement and control point is entered in the top half of the measurement and control point circuit using identifying letters shown in the table below. The measurement and control point number is entered in the bottom half of the measurement and control point circuit.
The measurement and control point number is formed from the identifying letters of the measurement and control functions and a consecutive number in the case of mechanical components and from the electrical-engineering designation to DIN 40719/1.74 and the sheet number and current path number in the case of electrical devices.

Example:



In the process computer point circuit, the process computer functions are entered in the top half of the process computer point circuit in accordance with the identifying letters shown in the table below.

Table for recognition character

Character	Group 1 Measured variable or other input variable		Group 2 Processing
	as first character	as second character	as additional character
A			State display, alarm
B			
C			Controlling
D	Density	Difference	
E	All electrical variables		Sensing element
F	Flow rate	Ratio	
G	Gauging, position or length		
H	Hand, manually initiated		
I			Indicating
J			
K	Time or time program		
L	Level		
M	Moisture or humidity		
N	User's choice		User's Choice
O	User's choice		Test point connection
P	Pressure or vacuum		
Q	Quality, e. g. analysis, concentration, conductivity	Integrate or totalise	
R	Nuclear radiation		Recording
S	Speed or frequency		Switching
T	Temperature		Transmitting, multifunction unit
U	Multi-variable		
V	Viscosity		Valve, damper, louver, actuating element
W	Weight or force		
X	Unclassified variables		Unclassified functions, e. g. TV camera, cathode ray tube, radioactive source
Y	User's choice		Computing relay, relay
Z			Emergency or safety acting
+			Upper limit value
/			Intermediate value
-			Lower limit value